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FIG.1

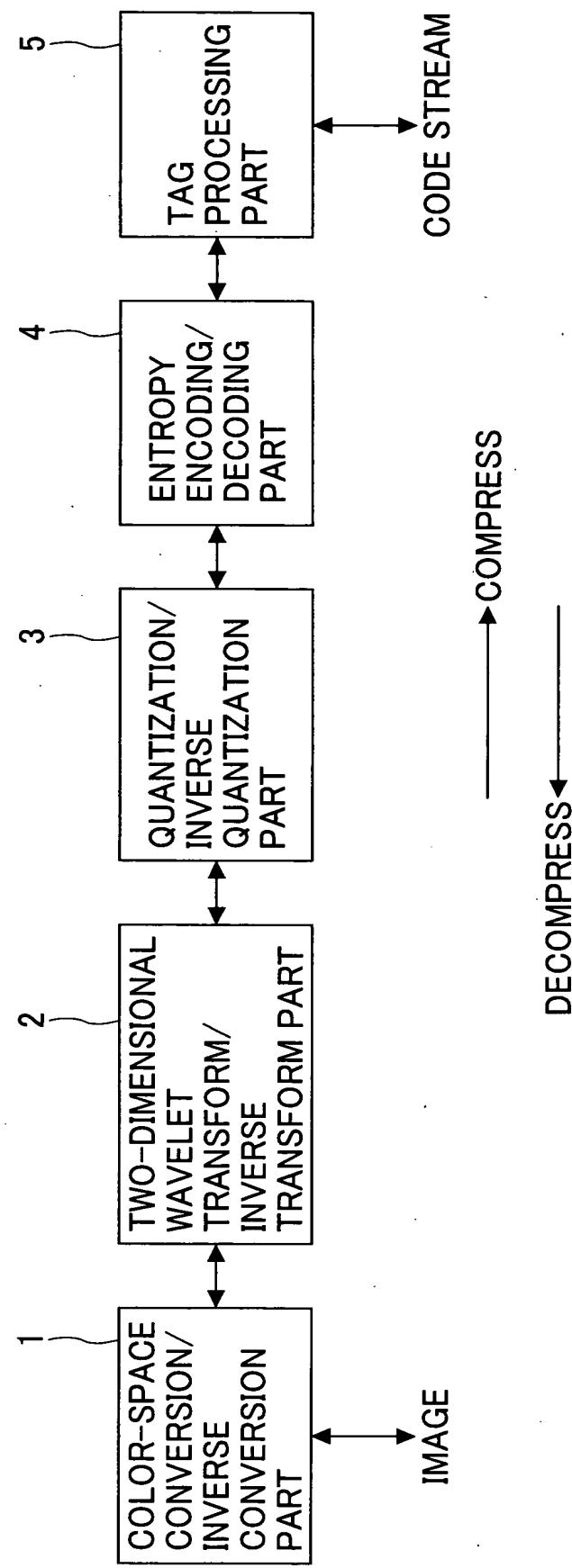


FIG.2

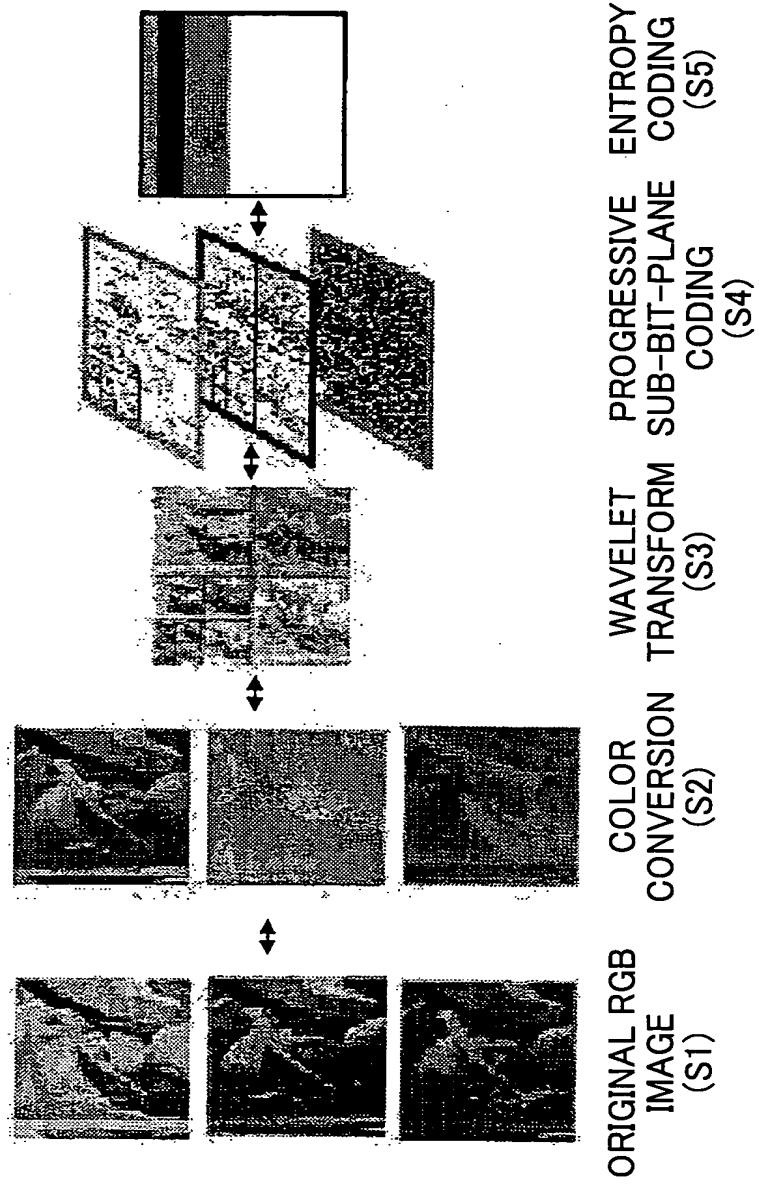
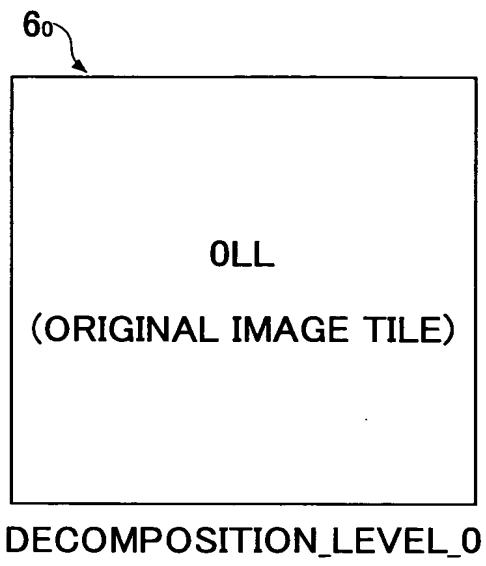
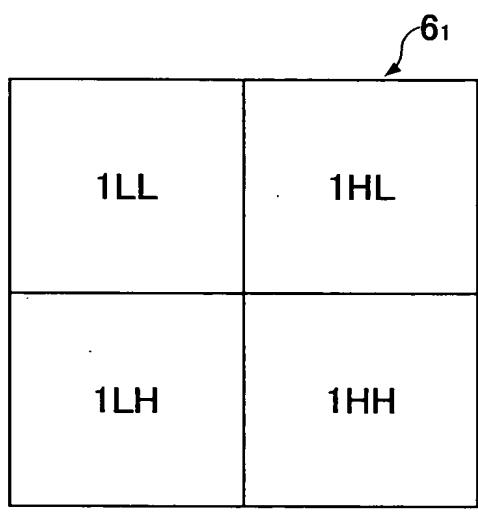


FIG.3A



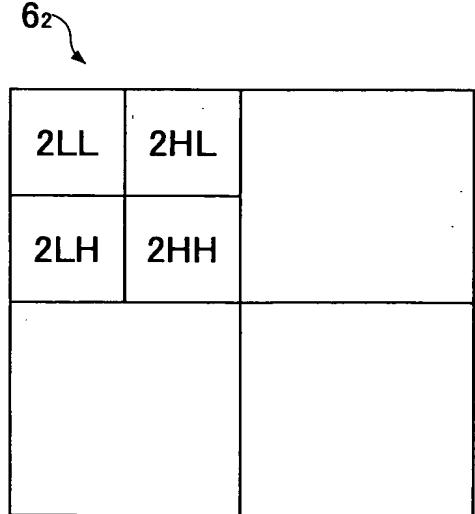
DECOMPOSITION_LEVEL_0

FIG.3B



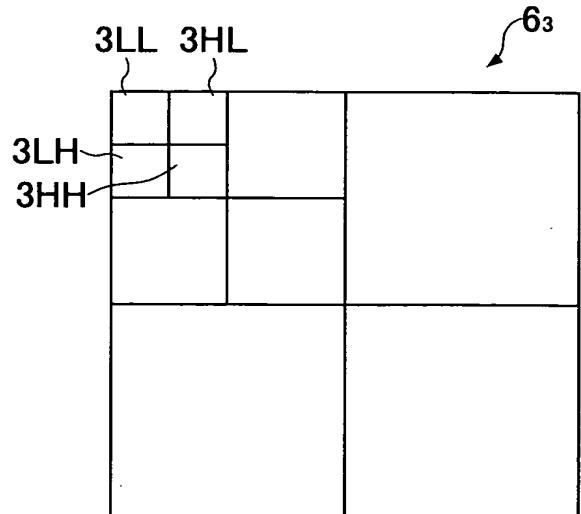
DECOMPOSITION_LEVEL_1

FIG.3C



DECOMPOSITION_LEVEL_2

FIG.3D



DECOMPOSITION_LEVEL_3

FIG.4

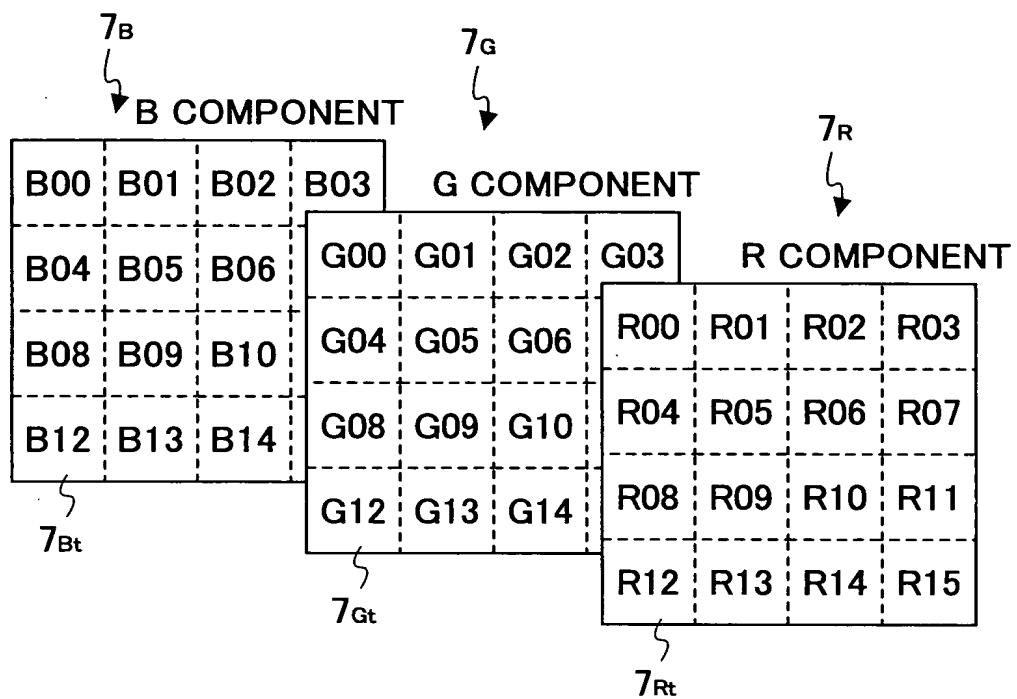


FIG.5

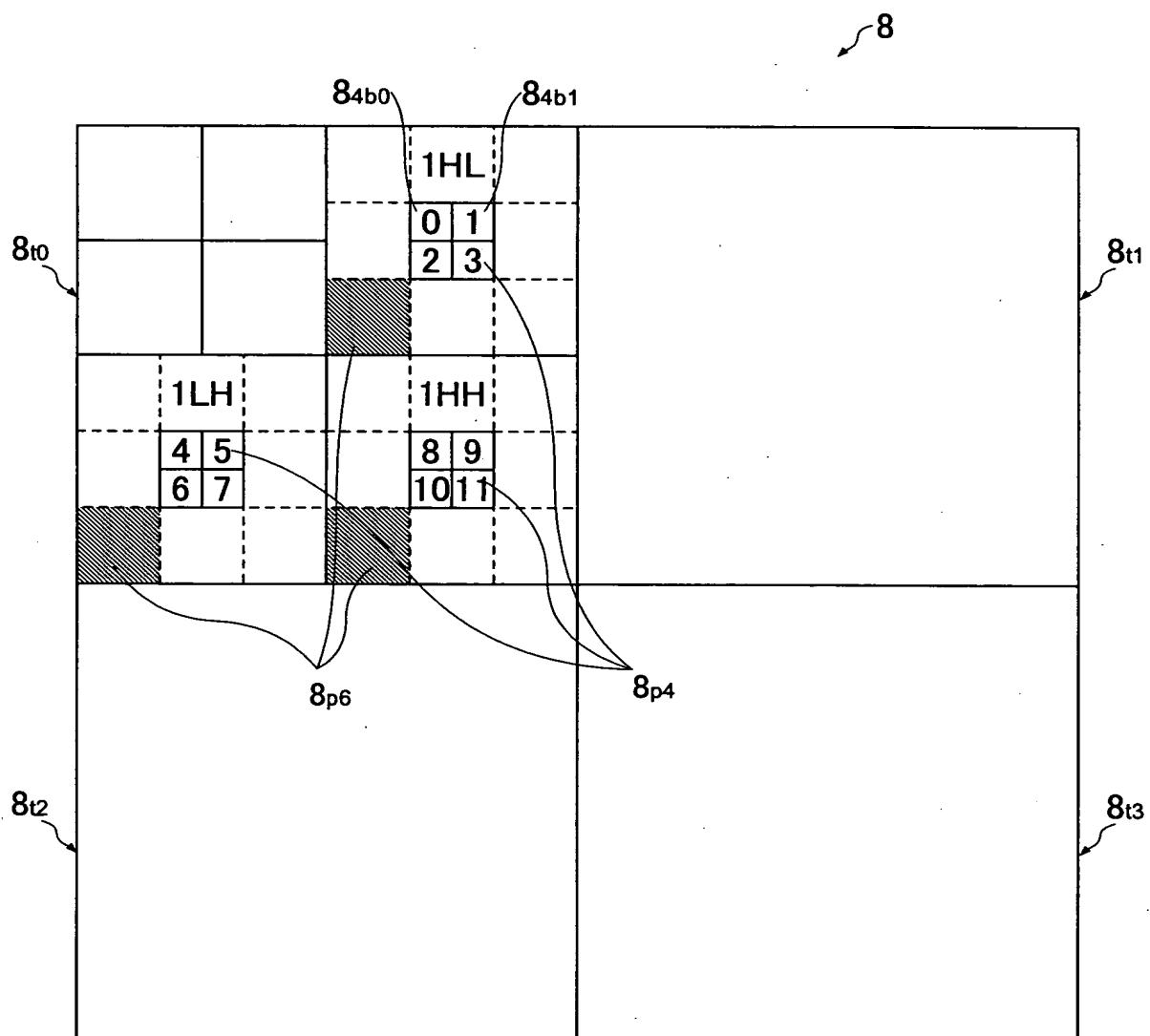


FIG.6

SUB-BAND		SUB-BIT PLANE		PRECINCT No.																						
BIT PLANE	MSB	2LL	2HL	2LH	2HH	1HL	1HH	1LH	1H	0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7	8
Code Of Bit 12	Significant Refinement Cleanup	51	72	93	114	135	156	177	198	215	228															
Code Of Bit 11	Significant Refinement Cleanup	50	71	92	113	134	155	176	197	214	227															
Code Of Bit 10	Significant Refinement Cleanup	49	70	91	112	133	154	175	196	213	226															
Code Of Bit 9	Significant Refinement Cleanup	48	69	90	111	132	153	174	195	212	225															
Code Of Bit 8	Significant Refinement Cleanup	47	68	89	110	131	152	173	194	211	224															
Code Of Bit 7	Significant Refinement Cleanup	46	67	88	109	130	151	172	193	210	223															
Code Of Bit 6	Significant Refinement Cleanup	45	66	87	108	129	150	171	192	209	222															
Code Of Bit 5	Significant Refinement Cleanup	44	65	86	107	128	149	170	191	208	221															
Code Of Bit 4	Significant Refinement Cleanup	43	64	85	106	127	148	169	190	207	220															
Code Of Bit 3	Significant Refinement Cleanup	42	72	93	114	135	156	177	198	215	228															
Code Of Bit 2	Significant Refinement Cleanup	41	71	92	113	134	155	176	197	214	227															
Code Of Bit 1	Significant Refinement Cleanup	40	70	91	112	133	154	175	196	213	226															
Code Of Bit 0	Significant Refinement Cleanup	39	69	90	111	132	153	174	195	212	225															
		38	68	89	110	131	152	173	194	211	224															
		37	67	88	109	130	151	172	193	210	223															
		36	66	87	108	129	150	171	192	209	222															
		35	65	86	107	128	149	170	191	208	221															
		34	64	85	106	127	148	169	190	207	220															
		33	72	93	114	135	156	177	198	215	228															
		32	71	92	113	134	155	176	197	214	227															
		31	70	91	112	133	154	175	196	213	226															
		30	69	90	111	132	153	174	195	212	225															
		29	68	89	110	131	152	173	194	211	224															
		28	67	88	109	130	151	172	193	210	223															
		27	66	87	108	129	150	171	192	209	222															
		26	65	86	107	128	149	170	191	208	221															
		25	64	85	106	127	148	169	190	207	220															
		7	15	63	84	105	126	147	168	189	206	219														
		6	14	62	83	104	125	146	167	188	205	218														
		5	13	61	82	103	124	145	166	187	204	217														
		4	12	60	81	102	123	144	165	186	203	216														
		7	15	23	59	80	101	122	143	164	185	202														
		6	14	22	58	79	100	121	142	163	184	201														
		5	13	21	57	78	99	120	141	162	183	200														
		4	12	20	56	77	98	119	140	161	182	199														
		7	15	63	59	80	101	122	143	164	185	202														
		6	14	62	58	79	100	121	142	163	184	201														
		5	13	61	57	78	99	120	141	162	183	200														
		4	12	20	56	77	98	119	140	161	182	190														
		3	11	19	27	55	76	97	118	139	160	181														
		2	10	18	26	54	75	96	117	138	159	180														
		1	9	17	25	53	74	95	116	137	158	179														
		0	8	16	24	52	73	94	115	136	157	178														

LSB

Code Of Bit 1 Significant Refinement Cleanup

Code Of Bit 2 Significant Refinement Cleanup

Code Of Bit 3 Significant Refinement Cleanup

Code Of Bit 4 Significant Refinement Cleanup

Code Of Bit 5 Significant Refinement Cleanup

Code Of Bit 6 Significant Refinement Cleanup

Code Of Bit 7 Significant Refinement Cleanup

Code Of Bit 8 Significant Refinement Cleanup

Code Of Bit 9 Significant Refinement Cleanup

Code Of Bit 10 Significant Refinement Cleanup

Code Of Bit 11 Significant Refinement Cleanup

Code Of Bit 12 Significant Refinement Cleanup

FIG.7

SUB-BAND		SUB-BIT PLANE		PRECINCT No.								2LL		2HL		2LH		2HH		1HL		1HH	
BIT PLANE	MSB	Cleanup	Significant	51	72	93	114	135	156	177	198	215	228										
Code Of Bit 12	Code Of Bit 11	Significant	Refinement	50	71	92	113	134	155	176	197	214	227										
Code Of Bit 10		Significant	Refinement	49	70	91	112	133	154	175	196	213	226										
Code Of Bit 9		Significant	Refinement	48	69	90	111	132	153	174	195	212	225										
Code Of Bit 8		Significant	Refinement	47	68	89	110	131	152	173	194	211	224										
Code Of Bit 7		Significant	Refinement	46	67	88	109	130	151	172	193	210	223										
Code Of Bit 6		Significant	Refinement	45	66	87	108	129	150	171	192	209	222										
Code Of Bit 5		Significant	Refinement	44	65	86	107	128	149	170	191	208	221										
Code Of Bit 4		Significant	Refinement	43	64	85	106	127	148	169	190	207	220										
Code Of Bit 3		Significant	Refinement	42	72	93	114	135	156	177	198	215	228										
Code Of Bit 2		Significant	Refinement	41	71	92	113	134	155	176	197	214	227										
Code Of Bit 1		Significant	Refinement	40	70	91	112	133	154	175	196	213	226										
LSB		Significant	Refinement	39	69	90	111	132	153	174	195	212	225										
		Significant	Refinement	38	68	89	110	131	152	173	194	211	224										
		Significant	Refinement	37	67	88	109	130	151	172	193	210	223										
		Significant	Refinement	36	66	87	108	129	150	171	192	209	222										
		Significant	Refinement	35	65	86	107	128	149	170	191	208	221										
		Significant	Refinement	34	64	85	106	127	148	169	190	207	220										
		Significant	Refinement	33	72	93	114	135	156	177	198	215	228										
		Significant	Refinement	32	71	92	113	134	155	176	197	214	227										
		Significant	Refinement	31	70	91	112	133	154	175	196	213	226										
		Significant	Refinement	30	69	90	111	132	153	174	195	212	225										
		Significant	Refinement	29	68	89	110	131	152	173	194	211	224										
		Significant	Refinement	28	67	88	109	130	151	172	193	210	223										
		Significant	Refinement	27	66	87	108	129	150	171	192	209	222										
		Significant	Refinement	26	65	86	107	128	149	170	191	208	221										
		Significant	Refinement	25	64	85	106	127	148	169	190	207	220										
		Significant	Refinement	7	15	63	84	105	126	147	168	189	206	219									
		Significant	Refinement	6	14	62	83	104	125	146	167	188	205	218									
		Significant	Refinement	5	13	61	82	103	124	145	166	187	204	217									
		Significant	Refinement	4	12	60	81	102	123	144	165	186	203	216									
		Significant	Refinement	7	15	23	59	80	101	122	143	164	185	202									
		Significant	Refinement	6	14	22	58	79	100	121	142	163	184	201									
		Significant	Refinement	5	13	21	57	78	99	120	141	162	183	200									
		Significant	Refinement	4	12	20	56	77	98	119	140	161	182	199									
		Significant	Refinement	3	11	19	27	55	76	97	118	139	160	181									
		Significant	Refinement	2	10	18	26	54	75	96	113	138	159	180									
		Significant	Refinement	1	9	17	25	53	74	95	116	137	158	179									
		Significant	Refinement	0	8	16	24	52	73	94	115	136	157	178									
LAYER 0																							
LAYER 1																							
LAYER 2																							
LAYER 3																							
LAYER 4																							
LAYER 5																							
LAYER 6																							
LAYER 7																							
LAYER 8																							
LAYER 9																							

THUMBNAIL FOR DIGITAL CAMERA
THUMBNAIL FOR IMAGE VIEWER SOFTWARE
THUMBNAIL FOR MOBILE PHONE

FIG. 8

FIG.9

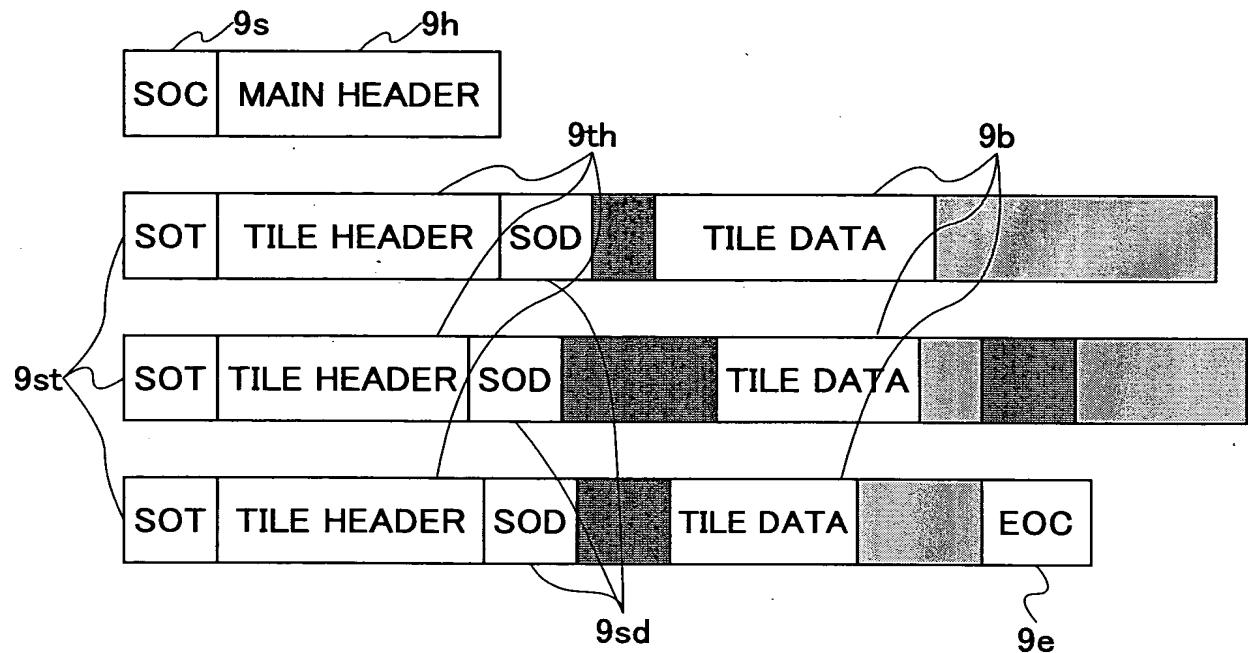


FIG.10

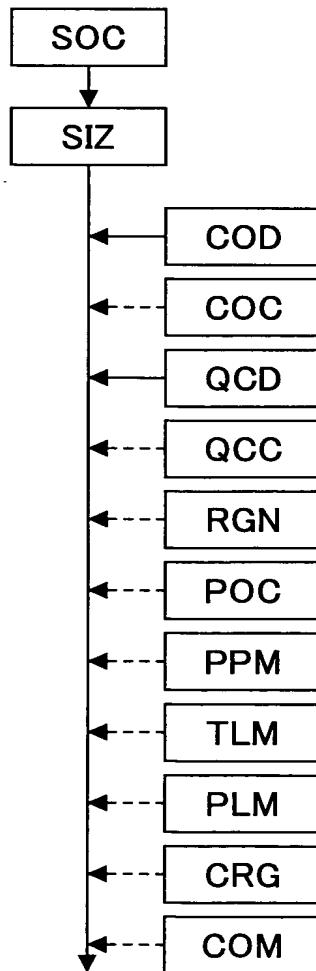


FIG.11

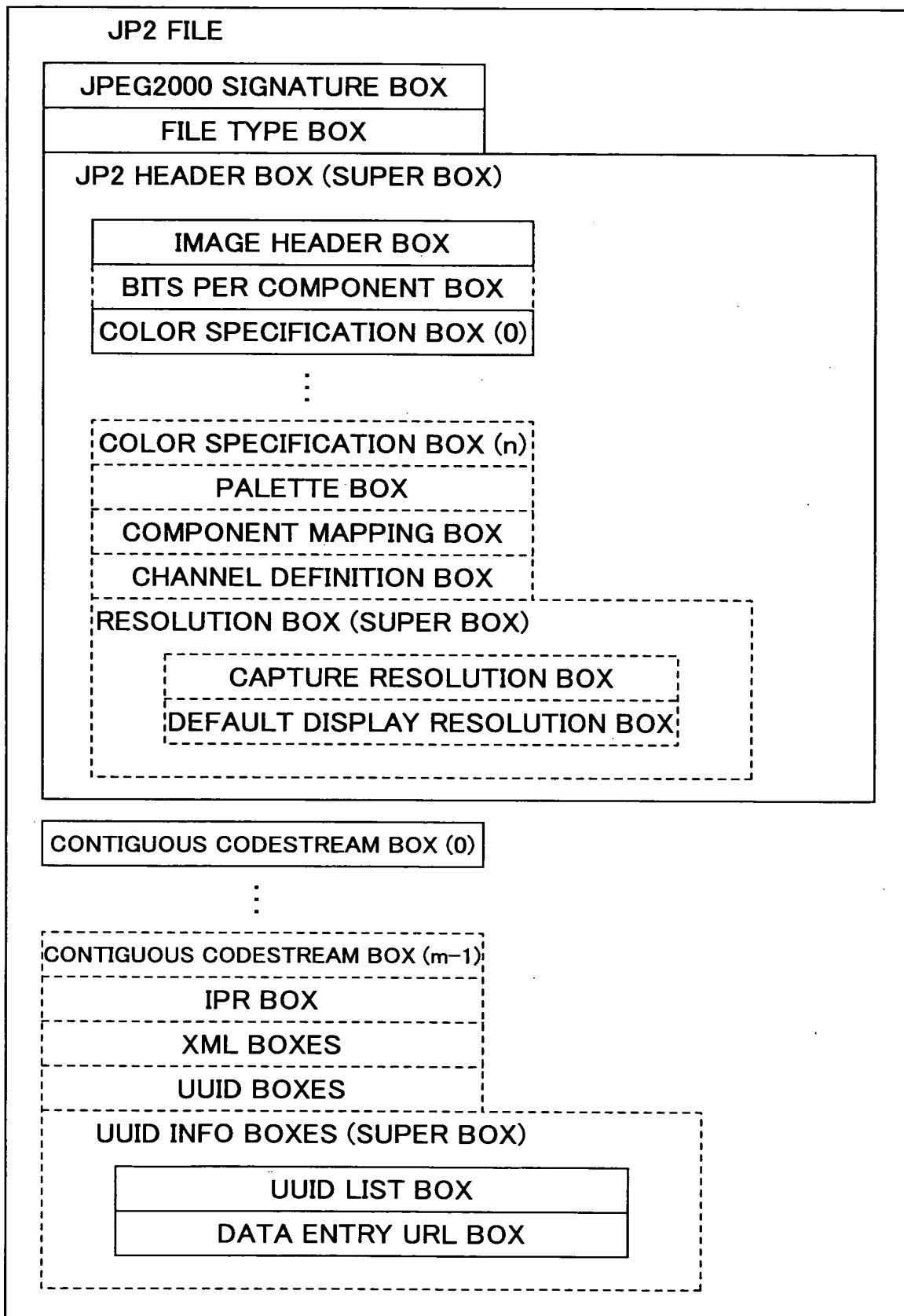


FIG.12

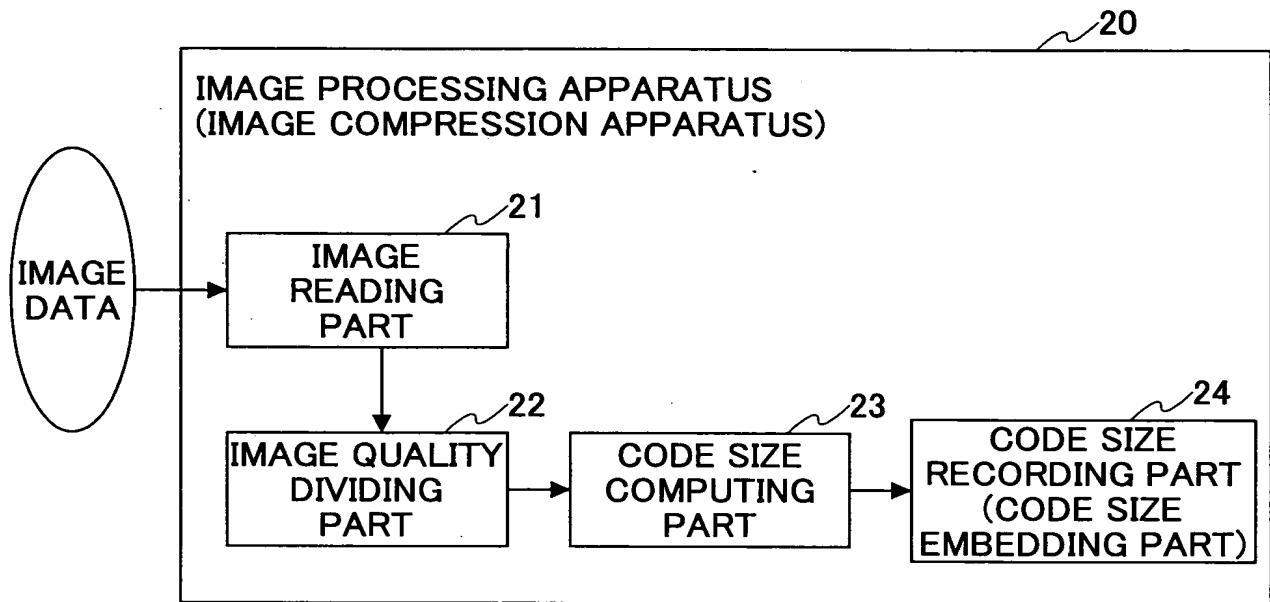


FIG.13

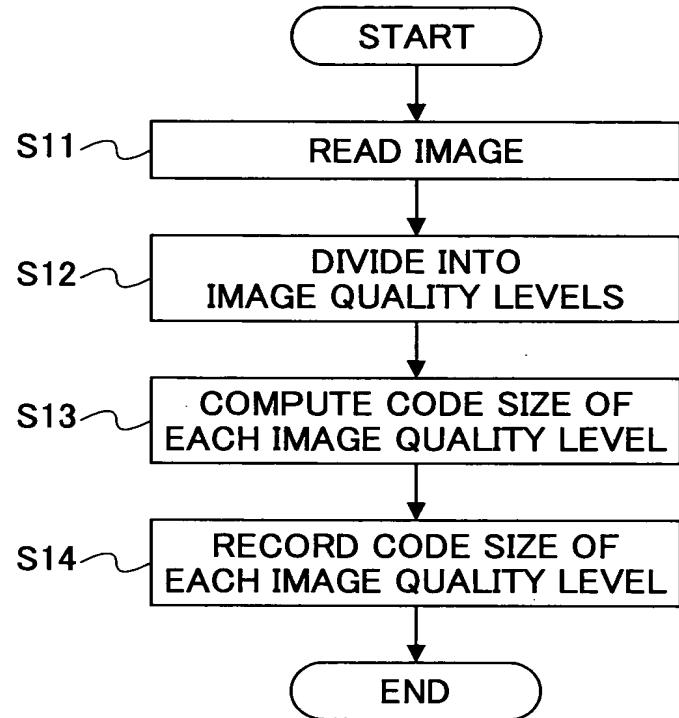


FIG.14

The diagram illustrates a table that maps the capacity of a transmission line (in bps) to its corresponding image quality level. Three arrows point from labels 30, 31, and 32 to the table, indicating specific data points: arrow 30 points to the top row (1G), arrow 31 points to the second row (100M), and arrow 32 points to the third row (10M).

CAPACITY OF TRANSMISSION LINE (bps)	IMAGE QUALITY LEVEL
1G	LAYER 0
100M	LAYER 2
10M	LAYER 4
8M	LAYER 5
1M	LAYER 7
5.6K	LAYER 10

FIG.15

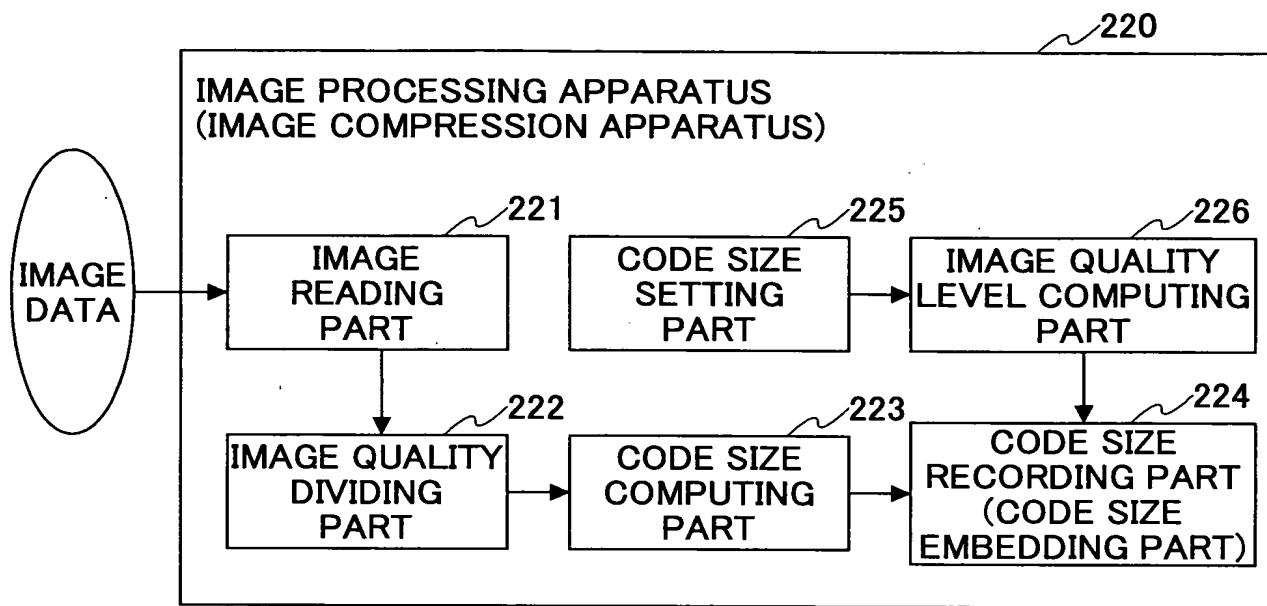


FIG.16

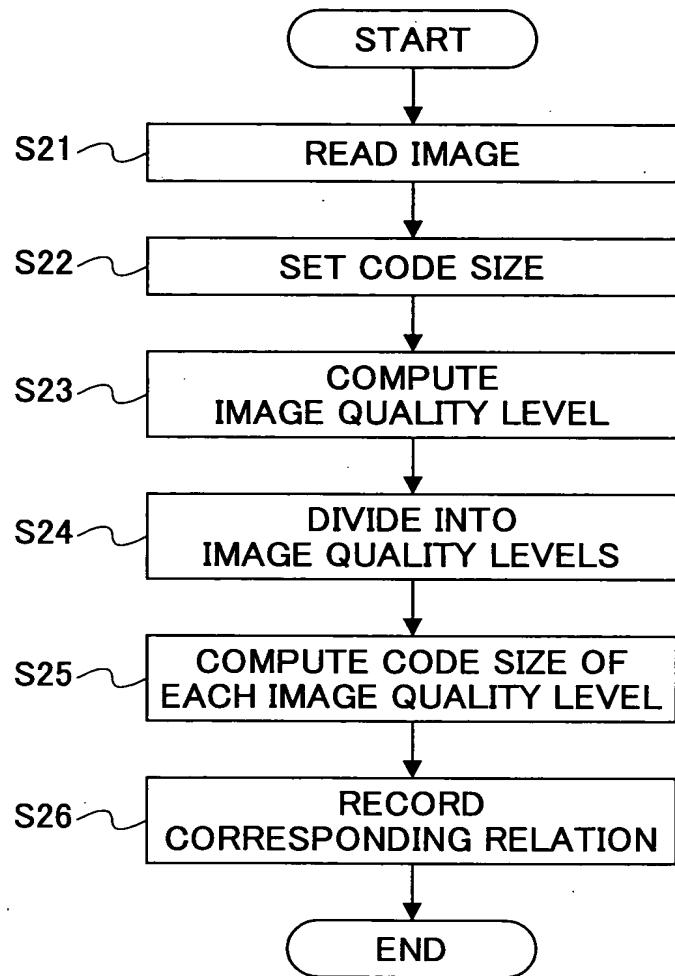


FIG.17

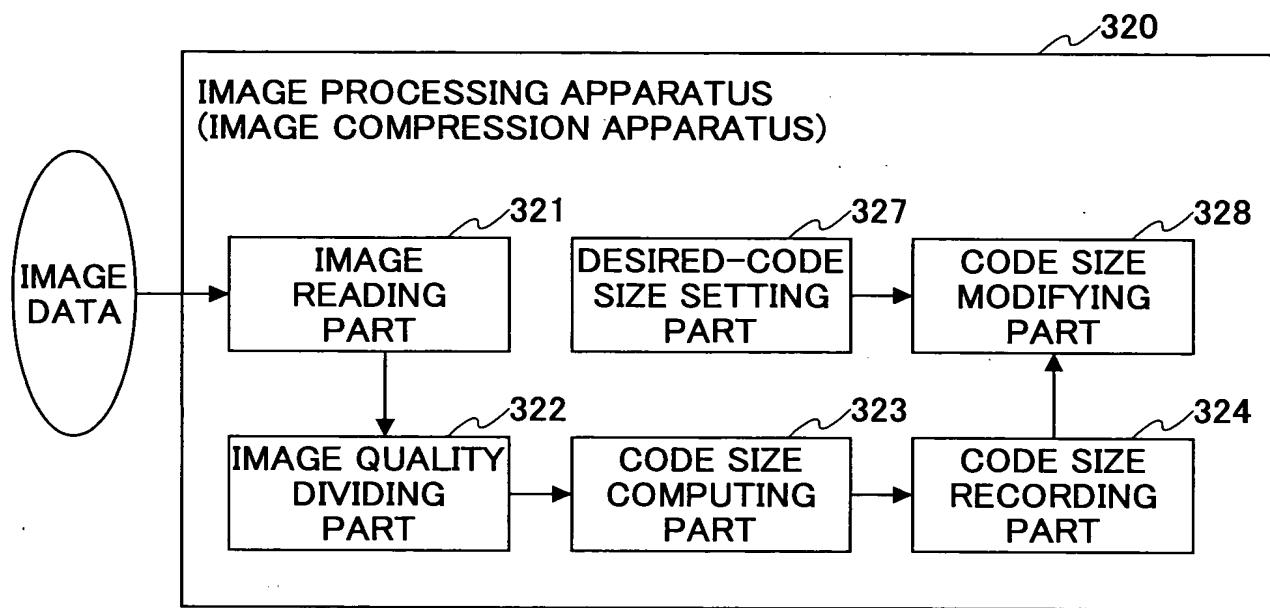


FIG.18

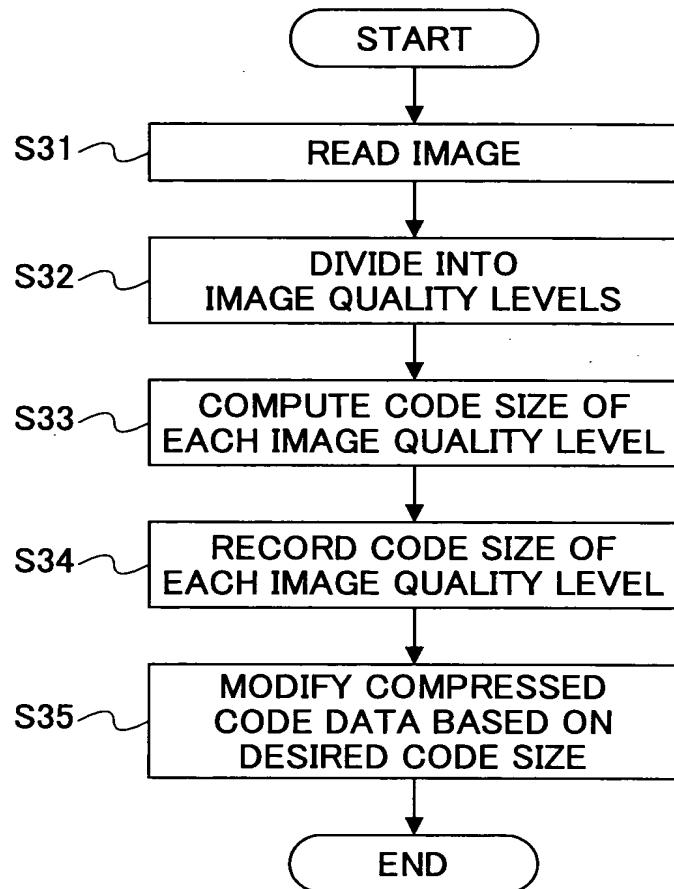


FIG.19

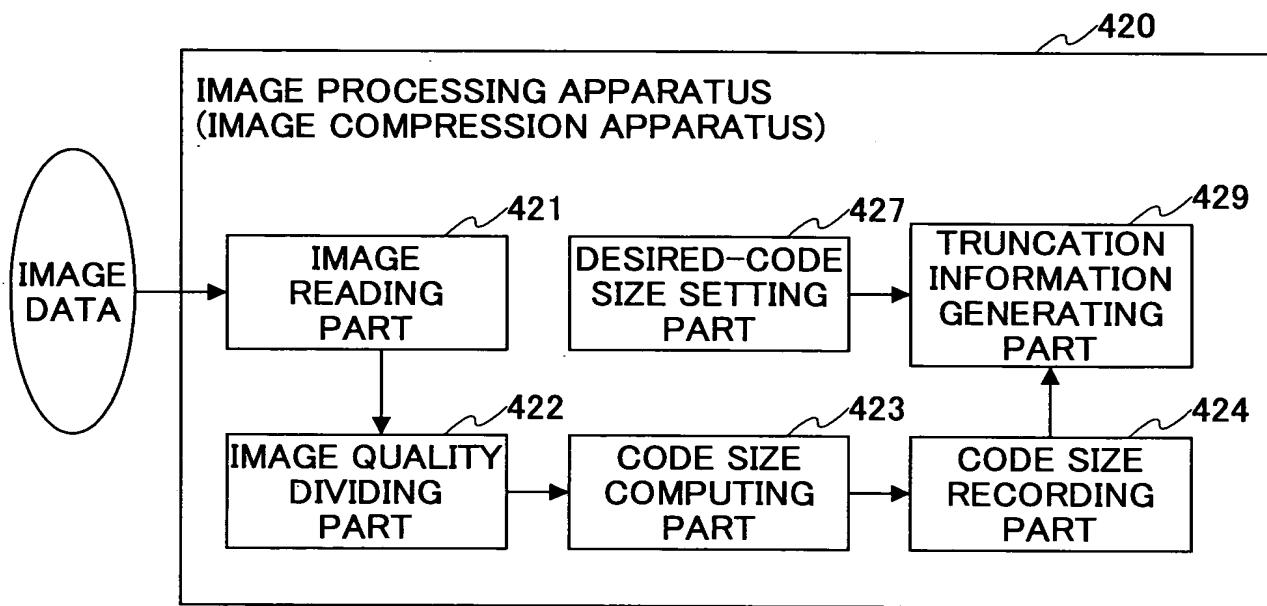


FIG.20

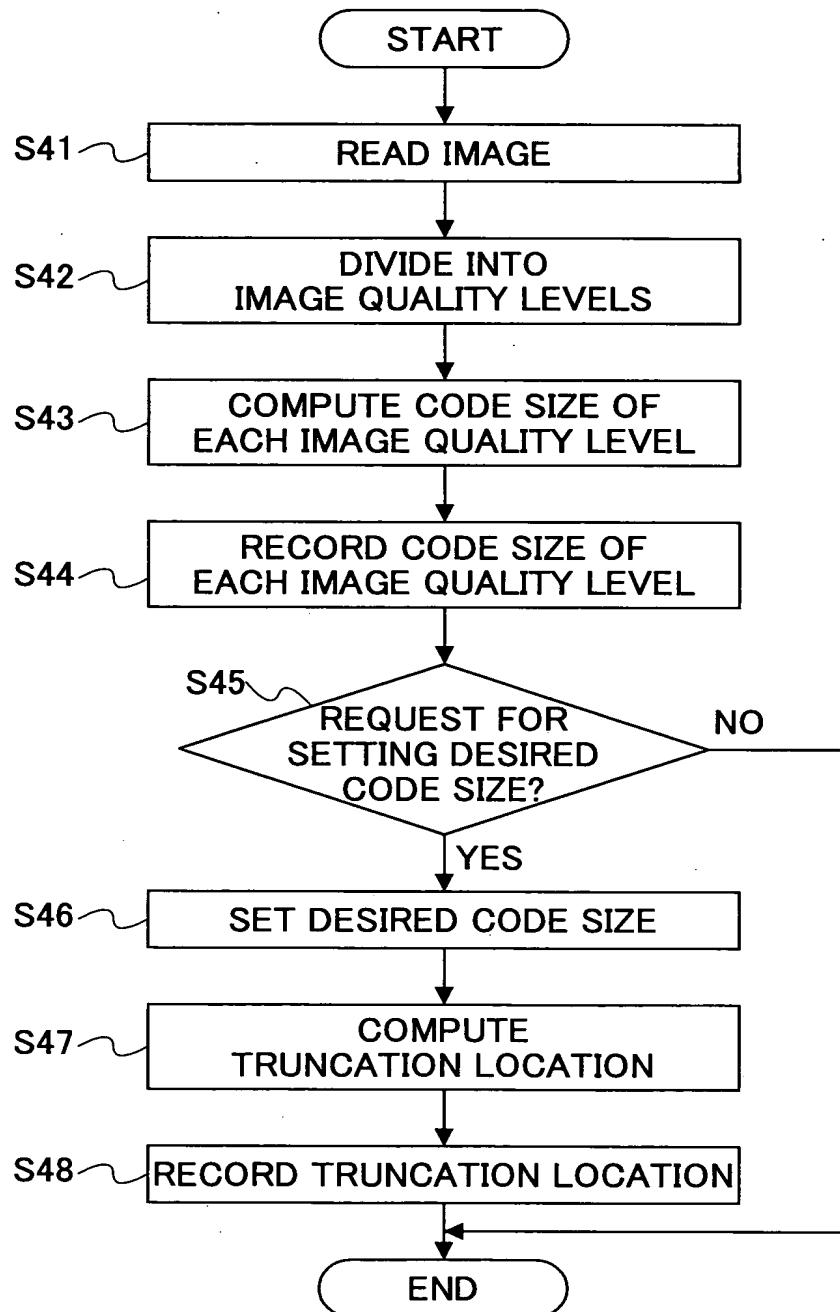


FIG.21



FIG.22A

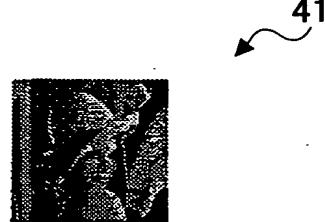


FIG.22B



FIG.22C



FIG.22D



FIG.23

